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# ANNUAL PROGRESS REPORT

FY-93



## VOLUME I







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DEPARTMENT OF CLINICAL INVESTIGATION WALTER REED ARMY MEDICAL CENTER WASHINGTON, DC 20307-5001

CLINICAL INVESTIGATION PROGRAM
RCS MED-300(RI)

94-34243

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11. SUPPLEMENTARY NOTES

The findings in this report are not to be considered as an official Department of the Army position unless so designated by other authorized documents.

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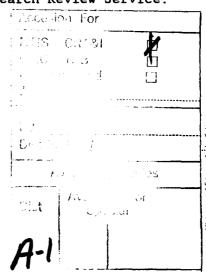
This report identifies approved clinical research activities conducted at Walter Reed Army Medical Center through protocols approved by the Clinical Investigation Committee, the Human Use Committee/Institutional Review Board, and/or the Animal Use Committee, as appropriate. This report includes a Detail Summary Sheet outlining the progress of each protocol during Fiscal Year 93. Also included is a list of all known presentations and publications related to approved studies, as well as those not related to approved clinical investigation protocols. All research was conducted under the provisions of AR 40-38 (Clinical Investigation Program), AR 40-7 (Use of Investigational Drugs in Humans and the Use of Schedule I Controlled Drug Substances), AR 70-25 (Use of Volunteers as Subjects of Research), HSC Reg 40-23 (Management of Clinical Investigations, Protocols, and Reports), and AR 70-18 (The Use of Animals in DOD Programs).

14 SUBJECT TERMS  APR - Annual Progres	s Report, PI - princip	al investigator.	15 NUMBER OF PAGES 800
protocol, study obje	ctive, technical appro nclusions, status, fun	ach, prior and	16 PRICE CODE
17 SECURITY CLASSIF CATION OF REPORT	18 SECURITY CLASSIFICATION OF THIS PAGE	19 SECURITY CLASSIFICATION OF SBSTRACT	20. LIMITATION OF ABSTRACT
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#### FORWARD

The Annual Progress Report (APR) documents the continuing review during FY-93 of research approved by the Clinical Investigation Committee (CIC), the Animal Use Committee (AUC), and the Human Use Committee/Institutional Review Board (HUC/IRB) of Walter Reed Army Medical Center (WRAMC). The review of each research protocol is initiated by the Department of Clinical Investigation (DCI) on the anniversary month of its approval. At that time, a request is sent to the principal investigator for submission of a progress report. The completed report consists of a detail summary sheet (DSS), a copy of the approved consent form, and a questionnaire regarding the continuing review of human subject participation or animal use. Members of the HUC/IRB or AUC review the progress reports throughout the year, and one of the following recommendations is made: 1) approval, 2) request additional information, or 3) request termination of the protocol. The members' recommendations are presented monthly to the HUC/IRB or AUC for final approval. The approved detail summary sheets of 551 protocols are included in this document.

The FY-93 APR process at WRAMC was administered by the Editorial Office, Research Administration Service, Department of Clinical Investigation, in coordination with the Research Review Service.



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#### I. UNIT SUMMARY

#### A. OBJECTIVE

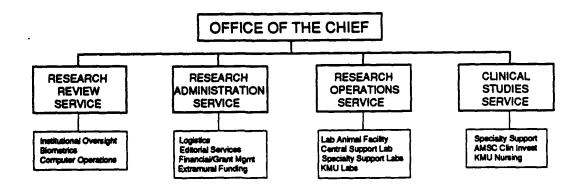
To implement and manage the clinical investigation program at Walter Reed Army Medical Center (WRAMC) by promoting, supporting, coordinating, planning, conducting, and publishing ethical, scientific inquiry into clinical health problems of beneficiaries of the military health care system, to include studies in humans and animals.

#### B. TECHNICAL APPROACH

The clinical investigation program at WRAMC is conducted in accordance with the following:

AR 40-7	Use of Investigational Drugs in Humans and the Use of Schedule I Controlled Drug Substances
AR 40-38	Clinical Investigation Program
AR 70-18	The Use of Animals in DOD Programs
TB MED 525	Control of Hazards to Health from Ionizing Radiation Used by the Army Medical Department
HSC 40-23	Management of Clinical Investigation Protocols and Reports
WRAMC 70-1	Clinical Investigation Program, WRAMC Research Activities
45 CFR 46	Protection of Human Subjects
21 CFR A,D,& F	Food and Drug Administration

#### C. ORGANIZATION SCHEME



D. DCI STAFF [Positions as of 30 September 1993; suffix (G) reflects grant-funded employees]

DESCRIPTION	GRADE	MOS	BRANCH	NAME	ACTIVITY
OFFICE OF THE CHIEF					
Chief	06	61C	MC	Wray, HL	DCI
Secretary	07	0318	GS	Raghunandan, Z	DCI
NCOIC	E6	01н30	NC	Williams, C	DCI
RESEARCH REVIEW SERV	ICE				
Chief	05	60F	MC	Derderian, SS	DCI
Biostatistician	14	1530	GM	Chang, AS	DCI
Statistician	12	1530	GS	Howard, RS	DCI
Computer Programmer	11	0334	GS	Rose, JG	DCI
Research Coordinator	. 09	1083	GS	Coleman-Fraser,E	DCI
Editorial Asst	05	1087	GS	Green, IL	DCI
Computer Room Supv	E5	01Н2О	NC	Gomez, RJ	DCI
Computer Room Asst	E4	92B10	NC	Curtner, D	DCI
RESEARCH ADMINISTRA	TION SERV	<u> CE</u>			
Chief	12	0501	GS	Burton, ME	DCI
Asst Administrator	<b>E</b> 7	92B40	NC	Sheldon, GM	DCI
Tech Pub Editor	09	1083	GS	Walden, JF	DCI
Editorial Asst	07	1087	GS	Vacant	DCI
Editorial Asst	07	1087	GS	Stacy, PG	DCI(G)
Editorial Asst	06/07	1087	GS	Muchui, MJ	DCI

DESCRIPTION	GRADE	MOS	BRANCH	NAME	ACTIVITY
(Research Administra	ation Ser	vice co	nt.)		
Supply Technician	06	2005	GS	Thomas, DR	DCI
Clerk Typist	04	0303	GS	Franklin, AF	DCI
RESEARCH OPERATIONS	SERVICE				
Chief	05	68F	MS	Kelly, DJ	DCI
Med Lab NCO	Е6	92B30	NC	Floyd, K	DCI
Lab Animal Facili	ity				
Bio Lab Tech	10	0404	GS	Bailey, LR	Animl Resch
Bio Lab Tech	09	0404	GS	Jackson, D	Animl Resch(G)
Central Research S	Support L	<u>ab</u>			
Chief	03	68C00	MS	Payne, AM	DCI
Chemist	12	1320	GS	Abdel-Rahim, M	DCI
Chemist	11	1320	GS	Bednarek, J	DCI
Med Lab NCO	E6	92B30	NC	Arledge, H	DCI
Med Lab NCO	E6	92 <b>B</b> 30	NC	Hillanbrand, D	DCI
Bio Sci Asst	E4	01H10	EN	Porter, L	DCI
Specialty Support	<u>Labs</u>				
Resch Chemist	13	0644	GS	Salata, KF	Allergy
Microbiologist	12	0403	GS	Billups, L	Flow Cytom
Microbiologist	12	0403	GS	Dobek, AS	Inf Disease

DESCRIPTION	GRADE	Mos	BRANCH	NAME	ACTIVITY
(Specialty Support	Labs cont	.)			
Med Technologist	11	0644	GS	Vacant	Allergy
Chemist	11	1320	GS	Maydonovich, CL	GI
Med Technologist	11	0644	GS	Kapur, JJ	DCI
Med Technologist	11	0644	GS	Burgess, D	Pediatrics
Med Technologist	11	0644	GS	Armstrong, JM	Rheum
Med Technologist	09	0644	GS	Terrell, R	Polyp Prev(G)
Kyle Metabolic Ro	esearch La	boratory	y GM	Carr, FE	DCI
Chemist	13	1320	GS	Tseng, YC	DCI
Physiologist	12	0413	GS	Lukes, YD	DCI
Chemist	12	1320	GS	Nicholson, DE	DCI
Chemist	11	1320	GS	Lahiri, S	DCI
Med Technologist	11	0644	GS	Barnes, SG	DCI
Med Technologist	11	0644	GS	Anderson, JS	DCI
Bio Lab Tech	09	0404	GS	Jenkins, EL	DCI
Editorial Asst	07	1087	GS	Jacobson, A	DCI
Med Technician	05	0645	GS	Martin, JL	DCI
Secretary	05	0318	GS	Phuong, U	DCI
Med Lab NCO	E6	92B40	NC	Vacant	DCI
Bio Sci Asst	<b>E</b> 5	01H2O	NC	Baptiste, V	DCI

DESCRIPTION	GRADE	Mos	BRANCH	NAME	ACTIVITY
CLINICAL STUDIES SER	VICE				
Specialty Support	<u>.</u>				
C, Nutrition Care	03	65C00	SP	Patton, B	KMU
Medical Officer	15	0602	GS	Popovic, NA	Ortho Resch
Dietitian	13	0630	GM	Mateski, DJ	Polyp Prev(G)
Resch Audiologist	12	0665	GS	Clay, J	AA&SC(G)
Gen Health Sci	12	0601	GS	Summers, WV	AA&SC(G)
Resh Psychologist	12	0180	GS	Hamm, C	Sleep Resch
Clinical Nurse	12	0610	GS	Jamison, J	<pre>Hem/Onc(G)</pre>
Resch Asst	12	0610	GS	Solomon, BL	KMU
Nurse Specialist	12	0610	GS	Myers, DV	Urology(G)
Nurse Specialist	12	0610	GS	Abt, MB	Urology
Nurse Specialist	11	0610	GS	Vacant	Ortho Resch
Nurse Specialist	11	0610	GS	Pangaro, K	Pulmonary(G)
Nurse Specialist	11	0610	GS	Argauer, K	Pulmonary(G)
Nurse Specialist	11	0610	GS	Kushner, G	Pulmonary(G)
Dietitian	11	0630	GS	Greaser, AM	Polyp Prev(G)
Dietitian	11	0630	GS	Hancock, S	Polyp Prev(G)
Dietitian	11	0630	GS	Miskovsky, VJ	Polyp Prev(G)
Nurse Specialist	11	0610	GS	Crutchfield, E	Polyp Prev(G)
Cardiorespir Tech	E6	91B30	NC	Land, R	Sleep Resch
Secretary	06	0318	GS	Satterwhite, D	Polyp Prev(G)
Secretary	05	0318	GS	Bryson, DD	Hem/Onc(G)

Army Medical Specialist Corps Clinical Investigation Service

Chief	05	65B9B	SP	Vacant	DCI

Kyle Metabolic Uni	it Nursin	ng Servic	<u>e</u>		
Supv Clin Nurse	12	0610	GS	Parchment, VA	DCI
Clinical Nurse	11	0610	GS	Bicknell, E	DCI
Clinical Nurse	11	0610	GS	Andersen, L	DCI
Clinical Nurse	11	0610	GS	Coleman, A	DCI
Clinical Nurse	11	0610	GS	Chaudhari, NP	DCI
Clinical Nurse	11	0610	GS	Saxon, NJ	DCI
Clinical Nurse	11	0610	GS	Battle, OM	DCI
Clinical Nurse	11	0610	GS	Vacant	DCI
Clinical Nurse	10	0610	GS	Burman, MS	DCI
Clinical Nurse	10	0610	GS	Stewart, MO	DCI
Clinical Nurse	9/11	0610	GS	Vacant	DCI
Nurse Asst	05	0620	GS	Keeve, ML	DCI

Because of severe budget restraints, the Department of Clinical Investigation was not permitted to replace civilian employees when positions were vacated. This resulted in a decrease of 4 WRAMC-funded civilian employees, from 51 to 47. Grant-funded civilian employees remained at 16. DCI had a net gain of 1 officer and 3 enlisted personnel, from 4 to 5 and 7 to 10, respectively. The total of 78 assigned personnel remains at last year's record high. In August 1993, the Research Operations Service welcomed a new Chief, LTC Daryl J. Kelly, MS. CPT Beverly D. Patton, SP, joined the staff in January 1993 as Chief, Nutrition Care, Kyle Metabolic Unit. More than \$113,000 in extramural funding was obtained from the National Institutes of Health to support research being conducted in the Research Section, Army Audiology and Speech Center. Most of these monies were used to fund two Ph.D.-level researcher positions. The Clinical Studies Service was

established as part of a reorganization of the Department's TDA to prepare for the pending downsizing.

#### E. DCI FINANCIAL SUPPORT

	FY-89	FY-90	FY-91	FY-92	FY-93
Civilian Personnel	\$1,000,402	\$1,500,001	\$1,922,896	\$2,365,661	\$2,410,306
Consumable Supplies	\$ 707,272	\$ 708,572	\$ 650,531	\$ 834,703	\$ 818,131
Civilian Contracts	\$ 88,898	\$ 107,000	\$ 204,385	\$ 123,186	\$ 141,816
TDY	\$ 35,186	\$ 36,102	\$ 31,399	\$ 54,433	\$ 59,764
Travel (non-federal sources)		•••		\$ 22,211	<b>\$</b> 14,802
Capital Expense Equipment Program	\$ 57,860	\$ 30,932	\$ 77,164	<b>\$</b> 270,374	\$ 270,462
MEDCASE	\$ 557,178	\$ 572,892	\$1,000,076	\$1,438,216	\$ 670,110
Other Grants	\$ 298,467	\$ 528,140	\$ 500,252	\$ 913,851	\$1,118,690
Military	\$ 429,718	\$ 392,137	\$ 397,960	\$ 402,488	\$ 451,683
TOTAL	\$3,174,981	\$3,875,776	\$4,784,664	\$6,425,123	\$5,955,764

#### F. RESEARCH ACTIVITY

#### 1. Accomplished in FY-93

With the mission to empower WRAMC researchers from planning to publication, the Department of Clinical Investigation (DCI) supported a record total of 717 active protocols this year (Table I). Twenty-three percent (166) of these studies were newly approved during the fiscal year, leaving 556 ongoing for at least one year that are summarized in this report. Medical Corps officers at WRAMC were principal investigators of 79% of the investigations. Medical Corps activities accounted for 96% of the investigations, and less than 1% were conducted at Army Community Hospitals in the Walter Reed Health Service Region (Table II). Human studies accounted for 92% of the investigations, with 32% involving research therapies including investigational drugs or devices and cooperative oncology group studies (Table III). Animal studies accounted for 6%, and laboratory studies

accounted for 2%. Publication and presentation productivity by WRAMC staff included 214 published abstracts, 334 published articles, and 312 conference presentations (Table IV). There were 31 Clinical Investigation Recognition Seminars (now in its seventh year) presented by WRAMC researchers, providing local dissemination of WRAMC research presented at regional and national conferences.

TABLE I. WRAMC Protocol Activity

PROTOCOLS	FY-88	FY-89	<b>FY-</b> 90	FY-91	FY-92	FY-93
ONGOING at the begining of FY	456	474	520	552	535	551
NEWLY APPROVED (+)	145	197	172	153	180	156
TOTAL ACTIVE During FY	601	671	692	705	715	717
COMPLETED (-)	114	118	128	164	153	148
TERMINATED (-)	13	33	12	6	11	13
ONGOING at the end of FY	474	520	552	535	551	556

TABLE II. WRAMC FY-93 Active Investigations by AMEDD Officer Corps

CORPS	GRAD #	TX PROG	OFFICE #	RS IN TX (%)	ACTIVE #	STUDIES (%)
Medical	51	(77)	420	(88)	685	(96)
Medical Service	9	(14)	30	(6)	10	(1)
Dental	3	(5)	14	(3)	3	(<1)
Medical Specialist	2	(3)	9	(2)	0	(0)
Nursing	1	(1)	7	(1)	12	(2)
Veterinary	0	(0)	0	(0)	2	(<1)
	66	(100)	480	(100)	712	(100)
Army Community Hosp	itals				6	

TABLE III. WRAMC FY-93 Active Investigations by Subject

SUBJECT		ACTIVE #	STUDIES (%)
Human		662	(92)
Invest New Drug Invest Device Cooperative Oncology Group Descriptive - Expedited Greater Risk	50 (7) 4 (<1) 176 (25) 182 (25) 250 (35) 662 (92)		
Animal		45	(6)
Laboratory		11	(2)
		718	(100)

TABLE IV. WRAMC Publications and Presentations

	FY-88	FY-89	FY-90	FY-91	FY-92	FY-93
Published Articles	104	157°	276°	285°	369*	334*
Abstracts	106	73	67	75	97+	214+
Presentations	93	61	106	110	232	312

<sup>\*</sup> Published Articles related to approved clinical investigations: FY-89 = 22; FY-90 = 62; FY-91 = 71; FY-92 = 114; FY-93 = 138

<sup>+</sup> Abstracts related to approved clinical investigations: FY-92 = 91; FY-93 = 56

The Clinical Investigation Program maintained a high level of activity during 1993 with a record number of active protocols (718 compared to 715 last year) despite a hiring freeze for civilian personnel and a decrease in financial support for equipment. The number of AMEDD officers in training at WRAMC decreased to 480 from the record high of 491 the previous year, with a decrease in physicians from 434 to 420.

The DCI Strategic Planning process resulted in the reorganization of the Department's TDA, the award of funding for the renovation of the laboratory animal facility to meet American Association for Accreditation of Laboratory Animal Care (AAALAC) standards, and the designation of Building 7 as the future site of research laboratory space in the WRAMC Master Plan.

In March, the Department moved from its long-occupied space on the sixth floor (Wards 62-63 area) of Building 2 to office space on the second floor (C sector) of Building 1. Ultimately, these offices are planned for the new BRAC Building, on which construction began late this year.

Under the auspices of the WRAMC Professional Education and Training Committee, the first WRAMC Research Course was completed in early FY-93. Attending the 15-hour course were 122 investigators, both in training and staff. Course evaluations were extremely favorable, and a second course has been developed for early FY-94.

The prestigious Bailey K. Ashford Clinical Research Award is bestowed annually on a member of the year's graduating class whose research accomplishments excelled during training. Fifteen graduating trainees, representing 10 training programs, were nominated for the 1993 award. A selection committee named four semi-finalists and five finalists. The finalists presented their results at a symposium sponsored by the Department of Clinical Investigation. The 1993 finalists were: MAJ Benje H. Boedeker, MC, Resident, Anesthesia-Operative Service, Department of Surgery, "Ultra-Long Duration Local Anesthesia Produced by Injection of Lecithin-Coated Tetracaine Microcrystals"; CPT Thomas B. Francis, MC. Fellow, Endocrine-Metabolic Service, Department of Medicine, "New Methods in YAC (Yeast Artificial Chromosone) Cloning"; MAJ Sharon G. Jackson, MC, Fellow, Endocrine-Metabolic Service, Department of Medicine, "Endothelin and the Thyroid"; MAJ David A. Nickels, MC, Fellow, Pediatric Endocrinology and Metabolism Service, Department of Pediatrics, "Effect of Somotostatin on Glomerular PGE, Production in the Diabetic Rat"; and MAJ James M. Roach, MC, Fellow, Pulmonary and Critical Care Medicine Service, Department of Medicine, "Validation of a New Bronchoprovocation Technique." Recipient of the 1993 Bailey K. Ashford Clinical Research Award, MAJ David A. Nickels, was announced at graduation in June.

The Research Review Service continued to be busy with an ever-increasing number of protocols being submitted. After 8 years as Assistant Chief of the Department and Chief of the Research Review Service, LTC Sarkis S. Derderian, MC, left for a new assignment as the Medical Director of the Sleep-Related Breathing Disorders Center, Pulmonary and Critical Care Medicine Service, Department of Medicine. His replacement,

MAJ George C. Tsokos, MC, had been assigned to the Uniformed Services University of the Health Sciences and, since 1992, as the Director of Rheumatology Research, Rheumatology Service, WRAMC. The Service streamlined, in collaboration with the Clinical Investigation Regulatory Office, the procedure for requesting and reporting the one-time use of an investigational new drug. Additionally, a Multiple Project Assurance was issued to WRAMC by the Department of Health and Human Services effective May 1993. The Biostatistics Section increased significantly the functions and capabilities of data analysis by upgrading STATISTIX to 4.0 and SPSS/PC to 6.0 Windows and by procuring BMDP and S+ software for non-standard statistical analyses and SOLO Power program for sample size estimation. During the year, the Computer Operations Section successfully completed a relocation of the computer room and an upgrade of the network operating system and began to develop a new database for improved financial management of protocols. The new network operating system greatly expanded the capabilities and performance of the DCINET, to include initiating the development of a centralized database for all departmental operations. In conjunction with the Directorate of Information Management, the Section developed a plan for a major network expansion to take place in 1994.

The Research Administration Service provided support for the Department and all WRAMC investigators, managing intra- and extramural monies totalling over \$5,950,000. Of this total, \$670,110 was received by the Department in MEDCASE funds, which was a decrease of \$768,106. Extramural funding continued to expand, up \$204,839 from 1992, and includes support from the National Institutes of Health, the U.S. Army Medical Research and Development Command, and the Veterans Administration. the past year, a large increase was seen in gifts, grants, and sponsored studies. To monitor, assist, and promote extramural funding to support research at WRAMC, a new vital office was created, the Extramural Funding Office. The Editorial Office continued to improve its services, providing comprehensive support to investigators/authors in composing research protocols and manuscripts. The compilation of the Annual Progress Report continues to closely monitor the progress of ongoing research projects, with all reports submitted within 30 days of the anniversary date of approval or the protocol is administratively reviewed and terminated. Additionally, the Editorial Office continues to update the "Clinical Investigator's Guide, " explaining the research review process and research resources at WRAMC and providing checklists, formats, and guidelines. To assist principal investigators further, a program continues whereby the routine forms and instructions required to compile a protocol are available to researchers on a user-friendly floppy disk.

During 1993, the Research Operations Service initiated and successfully completed several major projects. In August 1993, LTC Daryl J. Kelly, MS, reported from the Walter Reed Army Institute of Research as the new Chief of this section. Through coordination with the Directorate of Engineering and Housing, the Research Operations Service submitted and was awarded a contract for the renovation of the research animal facility to be completed in August 1994 and for the construction of a new infectious disease laboratory to be completed in March 1994. The research animal use program successfully passed a congressionally mandated, DOD directed, IG

Inspection, which recommended completion of the planned animal facility renovations. By centralizing research efforts and realigning personnel, the Research Operations Service continued to increase laboratory research support to principal investigators throughout the medical center.

The DCI Flow Cytometry Laboratory provided support for 12 fellows and a number of staff from departments around the medical center, including the Allergy-Immunology Service, Rheumatology Service, Pediatric Hematology-Oncology Service, Department of Pathology and Area Laboratories, and Pediatric Endocrinology Service, with eight new protocols initiated. The DCI Immunogenetics Laboratory has aggressively expanded collaboration with researchers, supporting six protocols during this fiscal year. After establishing DNA-PCR and applying it to HLA typing, the laboratory is taking up several protocols dealing with Hepatitis B and C.

The Kyle Metabolic Unit Nursing Service supports 16 beds that are utilized for the evaluation and treatment of endocrine and metabolic disorders. CPT Beverly D. Patton was assigned as the metabolic dietitian.

The 7-year polyp prevention study (NIH grant), now in its third year, headed by LTC James Kikendall, MC, Gastroenterology Service, Department of Medicine, focused on enrolling additional subjects. This is a multi-center study of patients who have undergone colonoscopic removal of adenomas. Subjects are randomized to no intervention or to a low fat, high fiber, high fruit and vegetable diet and extensive counselling. Nutrition counselling for those in the dietary intervention group was ongoing during this past year.

As in years past, principal investigators conducting research under the Clinical Investigation Program at WRAMC continued to receive national recognition during FY-93 for their outstanding research. CPT Michael D. Eisenhauer, MC, Resident, Department of Medicine, received several recognitions this past year for this work entitled "Incidence of Cardiac Arrhythmias During Intravenous Pentamidine Therapy in HIV-Infected Patients." In November 1992, he won the Associates' Competition at the 9th Army Regional Meeting of the American College of Physicians, San Franscisco, CA; in January 1993, he won the Associates' Competition, Metropolitan D.C. Chapter of the American College of Physicians, Washington, DC; and in April 1993, his poster received recognition as a finalist at the 74th Annual Session of the American College of Physicians National Meeting, Washington, DC.

MAJ Donald J. Lewis, MC, Urology Service, Department of Surgery, received two resident research awards. In February 1993, he received the Washington Urologic Society Residents Day Research Essay Award, and in April 1993, he received the Joseph Baugh Military Resident Research Award at the Uniformed Services Surgical Associates Annual Meeting, Bethesda, MD. Both of these awards were for his work on "Evaluation of the P53 Tumor Suppressor Gene in Human Testicular Cancer."

CPT Kimberly Peele, MC, Fellow, Neuro-Ophthalmology Service, Departments of Ophthalmology and Neurology, won the 1993 Residents' and Fellows' Competition at the Annual Meeting of the North American Neuro-Ophthalmology Society for her research evaluating peripheral visual fields in pseudotumor cerebri. The title of her presentation was "The Role of Peripheral Visual Fields in Idiopathic Intracranial Hypertension."

MAJ David A. Nickels, MC, Fellow, Pediatric Endocrinology and Metabolism Service, Department of Pediatrics, was the recipient of the Ogden Bruton Award at the Annual Tri-Service Pediatric Seminar in February 1993. This award honors the best basic science research by an active duty pediatrician. Dr. Nickels' paper was entitled "Prevention of Diabetic Nephropathy: Potential New Mechanisms."

First Place honor went to MAJ Joachim J. Tenuta, MC, G. nedic Surgery Service, Department of Surgery, at the Residents' Night Competition, Washington Orthopaedic Society, for his work entitled "Arthroscopic Evaluation of Miniscal Repairs: Factors that Affect Healing." Dr. Tenuta presented his paper to the Society at their meeting held in Arlington, VA, in April 1993.

For his work "Subtalar Arthrodesis in the Pediatric Population. A Long Term Follow-Up Study," CPT William DeVries, MC, Orthopaedic Surgery Service, Department of Surgery, received second place recognition at the Residents' Night Competition, Washington Orthopaedic Society, Arlington, VA, April 1993.

The Charles A. Hufnagel Award of the Uniformed Services University of the Health Sciences was awarded to CPT John S. Xenos, MC, Orthopaedic Surgery Service, Department of Surgery, for his study "The Tibiofibular Syndesmosis: Evaluation of the Ligamentous Structures and Methods of Fixation." Dr. Xenos presented his work at the Annual Reserve Components Surgical Day, Bethesda, MD, in April 1993.

#### 2. Planned for FY-94

The Department of Clinical Investigation hopes to maintain the essence of the Clinical Investigation Program despite severe budget restrictions in FY-94. The Bailey K. Ashford Research Symposium, the WRAMC Research Course, and the Clinical Investigation Recognition Seminars will be continued. Areas of particular interest for the upcoming year include the following:

- a. Close coordination and oversight of the renovation of the laboratory animal facility and the departmental space in the BRAC Building.
- b. Continued emphasis on departmental reorganization to support increased extramural funding.

#### 3. Ongoing and Future Issues

It is probable that WRAMC activities in patient care, training, and research will decrease substantively in the future. The major ongoing and

future issue is the same as last year, funding of the WRAMC Clinical Investigation Program in this new environment.

TABLE V: Human Use Committee/Institutional Review Board Members

Kenneth Burman, COL MC	Co-Chairman Chief, Endocrine-Metabolic Service Representing Deputy Commander
Stephen Sihelnik, LTC MC	Co-Chairman Assistant Chief, Urology Service Representing Deputy Commander
Sarkis Derderian, LTC MC	Acting Co-Chairman Assistant Chief, DCI
Dominic Solimando, MAJ MS	OIC, Hematology-Oncology Pharmacy Representing Chief, Pharmacy Service
David DeDonato, LTC CH	Chief, Dept of Ministry and Pastoral Care
Jack Farrell, Ph.D.*+	Chief, Psychology Section U.S. Soldiers' & Airmens' Home
Eric Marks, M.D.*	Associate Professor Dept of Medicine, USUHS
Laurel Meaney, DAC	Patients' Rights Representative, WRAMC
Scott Murdoch, J.D.	Chief, Claims Office Representing Center Judge Advocate
Cheryl Hostetler, DAC	Clinical Instructor, Dietetic Internship Education and Research Nutrition Care Directorate Representing Ch, Nutrition Care Dir
Jean Reeder, LTC AN	Chief, Nursing Research Service Representing Chief, Dept of Nursing
Robert Smallridge, COL MC*	Chief, Dept of Clinical Physiology Division of Medicine, WRAIR Representing Director, WRAIR
Estelle Coleman-Fraser, DAC	Research Review Coordinator Department of Clinical Investigation
*Non-affiliated	

TABLE VI: Clinical Investigation Committee Members

Sarkis Derderian, LTC MC	Acting Chairman Assistant Chief, DCI
Stephen Sihelnik, LTC MC	Acting Co-Chairman Staff, Urology Service, Dept of Surgery
Ana Rodriguez, COL MC	Chief, Nuclear Medicine Representing Radiation Control Comm
Audrey Chang, Ph.D.	Senior Biostatistician, DCI
Gary Klipple, COL MC	Chief, Nephrology Service Representing Chief, Dept of Medicine
Scott Murdoch, J.D.	Chief, Claims Office Representing Center Judge Advocate
Jean Reeder, LTC AN	Chief, Nursing Research Service
Douglas Hale, MAJ MC	Staff, General Surgery Service Representing Chief, Dept of Surgery

TABLE VII: Rotating Senior Investigators, Clinical Investigation Committee

Majorie Leek, Ph.D.	Army Audiology & Speech Center
Bahman Jabbari, COL MC	Neurology Service
Terry Schultz, COL MC	Department of Psychiatry
Roy Wong, COL MC	Gastroenterology Service
Gary Carpenter, COL MC	Allergy-Immunology Service
Russell Moores, MAJ MC	Department of Pediatrics

TABLE VIII: Animal Use Committee Members

Sarkis Derderian, LTC MC	Acting Chairman Assistant Chief, DCI
Judith Davis, MAJ VC	Attending Veterinarian Chief, Animal Resource Department, Div of Veterinary Medicine, WRAIR
Matthew Payne, CPT MS	Acting Ch, Research Operations Service Dept of Clinical Investigation, WRAMC
Hernando Mena, LTC MC*	Asst Chairman, Dept of Neuropathology Armed Forces Institute of Pathology
Ted Hadfield, LtCol BSC*	Chief, Division of Microbiology Armed Forces Institute of Pathology
*Non-affiliated	

TABLE IX: HIV Research/Clinical Investigation Committee Member

Charles Oster, COL MC Chief, Infectious Disease Service Representing Program Director, HIV Research, Jackson Foundation

EXPENSES FOR PROTOCOLS OF CURRENT AND PREVIOUS FISCAL YEARS.
BY DEPARTMENT AND SERVICE, LISTED IN ALPHABETICAL ORDER

DEPARTMENT/	PROTOCO		CURRENT	TOTAL
SERVICE	NUMBER		<u>FY (\$)</u>	(\$)
ALLERGY - IMMUN			_	
	1400-88	2,658	0	2,658
	3221	21,527	0	21,527
	3339	4,047	0	4,047
	3340	7,478	0	7,478
	3343	737	0	737
	3344	5	0	5
	3345	330	0	330
	3346	1,630	20	1,650
	3347	40	20	60
	3349	2,763	0	2.763
	3350	48	0	48
	3351	331	0	331
	3352	2,357	0	2,357
	3353	530	0	530
	3354	4,403	0	4,403
	3355	655	0	655
	3357	13,444	526	13,970
	3358	6,362	320	6,682
	3359	834	20	854
	3360	632	0	632
	3363	64	1,090	1,154
	3364	3,509	1,386	4,895
	3365	11,276	708	11,984
	3366	4,027	478	4,505
	3367	2,573	11,501	14,074
	3368	0	3,167	3,167
	4811	6,611	1,894	8,505
	4812	2,623	1,268	3,891
	6276	1,294	1,080	2,374
	9272	35,616	0	35,616
	9286	1,738	6,534	8,272
	TOTAL	140,142	30,012	170,154
DEPARTMENT OF		INVESTIGATION	,	-, -, -, -, -, -, -, -, -, -, -, -, -, -
	1673	5,469	0	5,469
	9271	13,141	Ö	13,141
	9275	16,791	Ö	16,791
	9284	1,900	3,892	5,792
	9285	1,394	335	1,729
	TOTAL	38,695	4,227	42,922
HIV RESEARCH	201111	30,073	7,227	74, 164
CLOMMOII	6325	0	1,106	1,106
	8802	996	1,100	996
	TOTAL	996	1,106	2,102
	IVIAL	790	1,100	2,102

<sup>\*</sup> Protocol is not listed if total expense is zero.

EXPENSES FOR PROTOCOLS OF CURRENT AND PREVIOUS FISCAL YEARS, BY DEPARTMENT AND SERVICE, LISTED IN ALPHABETICAL ORDER

DEPARTMENT/	PROTOCOL	PRIOR	CURRENT	TOTAL
SERVICE_	NUMBER*	FY's (\$)	<u> </u>	(\$)
DEPARTMENT OF	MEDICINE			
Cardiology	Service			
	1264	517	0	517
	1268	2,236	1,864	4,100
	1269	5,091	4,310	9,401
	TOTAL	7,844	6,174	14,018
DEPARTMENT OF				
Dermatolog				
	1815	1.100	0	1,100
	TOTAL	$\frac{1,100}{1,100}$	$\frac{0}{0}$	$\frac{1,100}{1,100}$
DEPARTMENT OF		-,		•
Endocrine-		Service		
Endoctino	1302-88	15,376	9,875	25,251
	1303-88	0	13,311	13,311
	1311-88	658	300	958
	1312-89	737	0	737
	1316-89	5,006	10,082	15,088
		1,477	0,002	1,477
	1322-90		<del>.</del> .	85,391
	1328-90	45,637	39,754	236
	1329-90	236	2 999	
	1330-90	0	2,888	2,888
	1331-91	3,221	12 260	3,221
	1333-91	17,635	13,369	31,004
	1334-91	1,043	47,682	48,725
	1335-91	28,343	6,701	35,044
	1336-91	6,758	10,419	17,177
	1337-91	264	0	264
	1339-91	837	0	837
	1340-91	0	778	778
	1342-92	1,304	7,118	8,422
	1343-92	0	70,849	70,849
	1346-92	0	12,398	12,398
	1349-92	0	7,776	7,776
	1356-84	4,352	0	4,352
	1359-85	51,726	16,699	68,425
	1371-86	11,403	0	11,403
	1372-86	68,391	0	68,391
	1376-86	18,811	0	18,811
	1385-87	65,494	0	65,494
	1391-87	814	0	814
	1395-87	182,360	535	182,895
	1399-87	102,850	8,213	111,063
	4299	14,018	0	14,018
	9266	23,963	0	23,963
	TOTAL	$\frac{23,733}{672,714}$	278,747	951,461
	7011111	<i>□16</i> ,,16,7		,

<sup>\*</sup> Protocol is not listed if total expense is zero.

EXPENSES FOR PROTOCOLS OF CURRENT AND PREVIOUS FISCAL YEARS, BY DEPARTMENT AND SERVICE, LISTED IN ALPHABETICAL ORDER

DEPARTMENT/ SERVICE	PROTOCOL NUMBER*	PRIOR FY's (\$)	CURRENT FY (\$)	TOTAL (\$)
DEPARTMENT OF		-11-3-(4/		\\Y/
	rology Servi	0.0		
oda ci delice	1401	6,597	635	7,232
	1404	100	0	100
			-	
	1406	10,467	1,116	11,583
	1411	1,510	0	1,510
	1413	34,319	5,053	39,372
	1414	28,537	710	29,247
	1416	1,908	635	2,543
	1417	20,014	0	20,014
	1421	0	570	570
	1423	4,718	2,045	6,763
	1450	16,101	0	16,101
	1483	2,340	0	2,340
	1487	1,158	635	1,793
	1496	525	0	525
	1497	1,250	0	1,250
	2031	3,895	149	4,044
	TOTAL	133,439	11,548	144.987
DEPARTMENT OF		133,437	11,540	144,707
	dicine Servi	co.		
General Me	1028		4.25	4.25
	TOTAL	0	<u>425</u> 425	425
DEDARMENT OF		U	425	425
DEPARTMENT OF				
Hematology	-Oncology Se		017	2 (21
	1681	2,705 2,705	916 916	$\frac{3,621}{3,621}$
	TOTAL	2,705	916	3,621
DEPARTMENT OF				
Infectious	Disease Ser			
	1956	7,236 7,236	0	7,236
	TOTAL	7,236	0	7,236
DEPARTMENT OF	MEDICINE			
Nephrology	Service			
-	1157	7,796	0	7,796
	1161	3,530	709	4,239
	1162	8,598	5,043	13,641
	1163	3,485	. 0	3,485
	1164	16,810	18,944	35,754
	1165	2,587	4,868	7,455
	1166	4,582	7,527	12,109
	1167	4,324	5,434	9,758
	1168	5,593	5,017	10,610
	1169	· · · · · · · · · · · · · · · · · · ·	150	
		0		150
	1170	57,305	21,208	21,208
	TOTAL	د٥٠, ١٠	68,900	126,205

<sup>\*</sup> Protocol is not listed if total expense is zero.

EXPENSES FOR PROTOCOLS OF CURRENT AND PREVIOUS FISCAL YEARS, BY DEPARTMENT AND SERVICE, LISTED IN ALPHABETICAL ORDER

DEPARTMENT/	PROTOCOL	PRIOR	CURRENT	TOTAL
SERVICE	NUMBER*	FY's (\$)	<u> </u>	(\$)
DEPARTMENT OF		a	a	
Pulmonary		Care Medicine		
	3011	0	<u>697</u>	<u>697</u>
	TOTAL	0	697	697
DEPARTMENT OF				
Pulmonary	Disease Ser			
	1707	11,787	0	11,787
	1714	220	0	220
	1717	1,090	1,727	2,817
	1724	5,058	220	5,278
	1732	5,515	0	5,515
	1743	660	0	660
	1747	3,003	0	3,003
	1748	663	155	818
	1749	0	155	155
	1751	0	1,154	1,154
	1752	0	1,339	1,339
	1753	0	1,364	1,364
	1754	4,981	1,950	6,931
	1756	0	1,502	1,502
	9280	2,535	2,249	4,784
	TOTAL	35,512	11,815	47,327
DEPARTMENT OF		33,312	11,013	47,327
	ogy Service			
Miedilacor	3707	11,644	10,763	22,407
	3707 3709	25,923	30,788	
	3710		•	56,711
		12,383	7,712	20,095
	3711	26,334	20,729	47,063
	3712	27,429	8,387	35,816
	3713	0	14,220	14,220
	3714	1,271	2,886	4,157
	3715	0	29,592	29,592
	TOTAL	104,984	125,077	230,061
NEUROLOGY SEE				
	7142	295	12,000	12,295
	7145	0	131	131
	7147 ·	1,744	1,048	2,792
	9200	6,875	0	<u>6,875</u>
	TOTAL	8,914	13,179	22,093
DEPARTMENT OF				
	7525	29	0	29
	7526	0	946	946
	TOTAL	29	946	975

<sup>\*</sup> Protocol is not listed if total expense is zero.

EXPENSES FOR PROTOCOLS OF CURRENT AND PREVIOUS FISCAL YEARS. BY DEPARTMENT AND SERVICE, LISTED IN ALPHABETICAL ORDER

DEPARTMENT/	PROTOCOL	PRIOR	CURRENT	TOTAL
SERVICE	NUMBER*	FY's (\$)	FY (\$)	(\$)
DEPARTMENT OF				
	c Oncology Gr			
0)	4265	238	0	238
	TOTAL	238	0	238 238
DEPARTMENT OF			=	230
DELAKTMENT OF	4814	O AKLA LABOR- 0		1 225
		0	$\frac{1,325}{1,325}$	1,325 1,325
DEDARTMENT OF	TOTAL	U	1,323	1,323
DEPARTMENT OF		10 (05	1/ 0/6	20 021
	6064	18,685	14,246	32,931
	6256	1,308	1,796	3,104
	6257	19,579	17,442	37,021
	6258	1,667	0	1,667
	6267	0	372	372
	6274	165	0	165
	6275	0	352	352
	6291	7,615	365	7,980
	6295	16,392	2,552	18,944
	6298	400	755	1,155
	6299	3,482	7,195	10,677
	6300	23,003	2,520	25,523
	6305	0	2,093	2,093
	6306	0	1,003	1,003
	6308	3,226	2,546	5,772
	6313	6,024	1,260	7,284
	6321	2,209	5,255	7,264
	6324	2,209	2,005	
				2,005
	6327	5,115	7,352	12,467
	6331	0	4,500	4,500
	6332	0	16,171	16,171
	6336	0	16,601	16,601
	TOTAL	108,870	106,381	215,251
DEPARTMENT OF				
Pediatric 1	Hematology-On			
	6213	12,276	2,559	14,835
	6307	2,371	0	2,371
	TOTAL	14,647	2,559	17,206
PHYSICAL MEDI	CINE AND REHAL	BILITATION SE	ERVICE ·	
	9609	0	1,265	1,265
	9612	2,058	491	2,549
	9614	. 0	1,853	1,853
	9621	0	1,527	1,527
	TOTAL	2,058	5,136	7,194
DEPARTMENT OF		2,030	3,130	,,174
DELAKIMENI OF	7245	163	1,092	1,255
	7245 7246	7,854	0	7,854
	/ 440	7,034	U	7,034

<sup>\*</sup> Protocol is not listed if total expense is zero.

EXPENSES FOR PROTOCOLS OF CURRENT AND PREVIOUS FISCAL YEARS, BY DEPARTMENT AND SERVICE, LISTED IN ALPHABETICAL ORDER

DEPARTMENT/ SERVICE	PROTOCOL NUMBER*	PRIOR FY's (\$)	CURRENT FY (\$)	TOTAL
DEPARTMENT OF		<u> 11 3 (9)</u>		
DEPARTMENT OF		0	220	220
	7250	0.017	229 1,321	<u>229</u> 9,338
	TOTAL	8,017	1,321	9,330
DEPARTMENT OF				ć <b>0.0</b>
	4538	500	0	500
	4700	0	251	251
	4702	0	934	934
	TOTAL	500	1,185	1,685
DEPARTMENT OF	SURGERY			
	-Operative Se	rvice		
	2056A	0	23,113	23.113
	2063A	0	31.313	31.313
	TOTAL	0	54,426	54,426
DEPARTMENT OF		· ·	54,420	54, 20
		oh Compan		
Army Audio	logy and Spee		0 101	9,300
	2504	1,119	8,181	·
	2510	0	73	73
	2511	5,350	1,067	6,417
	2514	0	3,540	3,540
	2515	910	240	1,150
	2516	80	1,235	1,315
	2518	0	90	90
	2519	0	54.6	546
	2520	0	1,910	1,910
	2521	997	2,236	3,233
	2588	4,031	0	4,031
	2590	6,560	8,768	15,328
			970	3,755
	2591	2,785		
	2594	6,220	0	6,220
	2598	1,995	750	2,745
	TOTAL	30,047	29,606	59,653
DEPARTMENT OF				
Critical C	are Medicine	Service		
	3008	<u>5,571</u>	0	5,571 5,571
	TOTAL	5,571	0	5,571
DEPARTMENT OF	SURGERY			
	ogy Service			
- F	2317	0	675	675
	2318	0	8,882	8,882
	2319	9,915	3,905	13,820
	TOTAL	9,915	13,462	23,377
DOBARTHENIT OF		3,713	13,402	23,377
DEPARTMENT OF		eral na		
Urthopaedi	c Surgery Se		•	0 430
	2410	8,439	0	8,439
	2427	0	278	278

<sup>\*</sup> Protocol is not listed if total expense is zero.

EXPENSES FOR PROTOCOLS OF CURRENT AND PREVIOUS FISCAL YEARS, BY DEPARTMENT AND SERVICE, LISTED IN ALPHABETICAL ORDER

DEPARTMENT/ SERVICE DEPARTMENT OF	PROTOCOL NUMBER* SURGERY	PRIOR FY's (\$)	CURRENT FY (\$)	TOTAL (\$)
Orthopaedic	Surgery Sen	rvice		
•	2432	0	2,636	2,636
	2435	5,959	0	5,959
	TOTAL	14,398	2,914	17,312
DEPARTMENT OF	SURGERY			
Otolaryngol	ogy-Head & N	Neck Surgery S	Sve	
	2501	5,874	0	5,874
	TOTAL	5,874	0	5,874 5,874
DEPARTMENT OF	SURGERY			
Urology Ser	vice			
-	2860	482	0	482
	2862	13,889	0	13,889
	2864	500	0	500
	TOTAL	14,871	0	14,871

<sup>\*</sup> Protocol is not listed if total expense is zero.

DEPARTMENT/ SERVICE	PROTOCOL NUMBER*	PRIOR FY's (\$)	CURRENT FY (\$)	TOTAL (\$)			
DEPARTMENT OF		VESTIGATION					
	9287	0	1,406	1,406			
	TOTAL	0	1,406	1,406			
DEPARTMENT OF MEDICINE							
Endocrine-	Metabolic Ser		707	707			
	1317	0	797	797			
	1320	7,244	26,674	33,918			
	1351	1,051	295	1,346			
	1352	0	4,534	4,534			
	1354	17,792	1,200	18,992			
	1360	252	4,972	5,224			
	1362	1,718	14,833	16,551			
	1373 1387	7,094	2,518	9,612			
	1390	39,004	525	39,529			
	1390	140,596	4,335 340	144,931			
	1392	371 140,501		711 140,952			
	4221	· _	451 270	•			
	TOTAL	355,623	<u>270</u> 61.744	<u>270</u> 417,367			
DEPARTMENT OF MEDICINE							
	rology Servi	20					
Gascroence	1495	4,160	453	4,613			
	TOTAL	4,160	453	4,613			
DEPARTMENT OF		4,100	433	4,013			
	-Oncology Ser	rvice					
nomaco 1063	1647	250	472	722			
	TOTAL	250	472	722			
DEPARTMENT OF		230	*,-	,			
Nephrology							
5.07.1.00.083	1171	0	1,764	1,764			
	1172	0	2,026	2,026			
	TOTAL	0	3,790	3,790			
DEPARTMENT OF		-	-,	-,			
		Care Medicin	e Svc				
	3006	0	155	155_			
	TOTAL	0	155	155			

<sup>\*</sup> Protocol is not listed if total expense is zero.

DEPARTMENT OF MEDICINE Pulmonary Disease Service  1716	DEPARTMENT/ SERVICE	PROTOCOL NUMBER*	PRIOR FY's (\$)	CURRENT FY (\$)	TOTAL (\$)			
1716     5,833     1,267     7,100       1722     100,000     1,224     101,224       1728     388     252     640       1729     0     747     747       1735     0     345     845       1742     750     135     885	DEPARTMENT OF MEDICINE							
1716     5,833     1,267     7,100       1722     100,000     1,224     101,224       1728     388     252     640       1729     0     747     747       1735     0     345     845       1742     750     135     885	Pulmonary I	Disease Servi	ce					
1728     388     252     640       1729     0     747     747       1735     0     845     845       1742     750     135     885	•			1,267	7,100			
1729     0     747     747       1735     0     845     845       1742     750     135     885		1722	100,000	1,224	101,224			
1735     0     845     845       1742     750     135     885		1728	388	252	640			
1742 <u>750</u> <u>135</u> <u>885</u>		1729	0	747	747			
		1735	0	845	845			
TOTAL 10/ 071 / /70 111 //3		1742	750	135_	885			
101AL 106,9/1 4,4/0 111,441		TOTAL	106,971	4,470	111,441			
DEPARTMENT OF MEDICINE	DEPARTMENT OF	MEDICINE						
Rheumatology Service	Rheumatolog	gy Service						
3220 <u>25.019</u> <u>1.400</u> <u>26.419</u>		3220	<u>25,019</u>	1,400	26,419			
TOTAL 25,019 1,400 26,419		TOTAL	25,019	1,400	26,419			
NEUROLOGY SERVICE	NEUROLOGY SERV	VICE						
7151 0 724 724			0	724	724			
7152 <u> </u>		7152		70	70			
TOTAL 0 794 794		_	•		794			
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY	DEPARTMENT OF		AND GYNECOLOG					
4300 <u>0 1,886 1,886</u>			0					
TOTAL 0 1,886 1,886			•		1,886			
DEPARTMENT OF PATHOLOGY AND AREA LABORATORIES	DEPARTMENT OF	PATHOLOGY AN	ID AREA LABOR					
48150340340		4815	0					
TOTAL 0 340 340			0	340	340			
DEPARTMENT OF PEDIATRICS	DEPARTMENT OF			•				
6237 0 1,021 1,021			0		•			
6268 0 190 190		6268	0	190	190			
6276 0 1,080 1,080			0	1,080	1,080			
6325 0 1,106 1,106			0	1,106	1,106			
6342 0 298 298			0					
6344 0 149 149				149				
6345 <u> </u>		6345	0					
TOTAL 0 3,884 3,884			0	3,884	3,884			
DEPARTMENT OF PSYCHIATRY	DEPARTMENT OF	PSYCHIATRY						
7287 <u> </u>		7287	0	15_	15_			
TOTAL 0 15 15		TOTAL	0	15	15			
DEPARTMENT OF SURGERY								
Anesthesia-Operative Service	Anesthesia	-Operative Se	rvice					
40260950950			0					
TOTAL 0 950 950		TOTAL	0	950	950			

<sup>\*</sup> Protocol is not listed if total expense is zero.

DEPARTMENT/ SERVICE	PROTOCOL NUMBER*	PRIOR FY's (\$)	CURRENT FY (\$)	TOTAL (\$)			
DEPARTMENT OF SURGERY							
Army Audiology and Speech Center							
-	2506	466	90	556			
	2524	0	260	260			
	2525	0	257	257			
	2527	0	320	320			
	2575	0	499	499			
	2593	5,988	400	6,388			
	2599	0	475	<u>475</u>			
	TOTAL	6,454	2,301	8,755			
DEPARTMENT OF	SURGERY						
General Su	rgery Servic	:e					
	2037	1.365	1,400	2,765			
	TOTAL	1,365	1,400	2,765			
DEPARTMENT OF	SURGERY						
Orthopaedi	ic Surgery Se	rvice					
_	2423	797	17,783	18,580			
	2428	0	88	88			
	2429	819	1,054	1,873			
	2437	0	7,811	7,811			
	2438	0	19,868	19,868			
	2440	0	1,106	1,106			
	2441	0	2,595	2,595			
	2442	0	837	837			
	2444	0	1,598	1,598			
	2445	0	9,593	9,593			
	2447	0	30,000	30,000			
	2450	0	42	42			
	2452	0	20	20			
	2454	0	1,912	1,912			
	2473	0	180	180			
	TOTAL	1,616	94,487	96,103			
DEPARTMENT OF		,	•				
Otolaryngology-Head & Neck Surgery Svc							
J • • B	2509	0	126	126			
	2526	0	<u>485</u>	485			
	TOTAL	0	611	611			

<sup>\*</sup> Protocol is not listed if total expense is zero.

DEPARTMENT/ SERVICE	PROTOCOL NUMBER*	PRIOR FY's (\$)	CURRENT FY (\$)	TOTAL (\$)
DEPARTMENT OF Urology Se				
	2873	0	126	126
	2876	0	1,695	1,695
	2877	0_	<u>5,336</u>	<u>5,336</u>
	TOTAL	0	7,157	7,157

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Smith K, Skelton H, Ruiz N, Laskin W, Wagner K: A rare lymphoma of soft tissue in an HIV-1+ patient. American Society of Dermatopathology Meeting, San Francisco, CA, December, 1992. [8812]	Pr

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CITATION*	TYPE
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<u>CITATION</u> *	TYPE*
HIV RESEARCH (continued)	
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CITATION*	TYPE
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Smith K: HIV-1 disease in a military population. American Academy of Dermatology Meeting, San Francisco, CA, December, 1992. [8812]	Pr
Smith K: HIV-1 disease in a military population. Atlantic Dermatology Meeting, Washington, DC, October, 1992. [8812]	Pr
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<u>CITATION</u> *	TYPE*
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DEPARTMENT OF MEDICINE Endocrine-Metabolic Service	
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CITATION*	TYPE**
DEPARTMENT OF MEDICINE Endocrine-Metabolic Service (continued)	
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<u>CITATION</u> *	TYPE*
DEPARTMENT OF MEDICINE Endocrine-Metabolic Service (continued)	
Tseng Y, Lahiri S, Jackson S, Burman K, Wartofsky L: Endothelin binding to receptors and endothelin production by human thyroid follicular cells: effects of transforming growth factor-beta and thyrotropin. J Clin Endocrinol Metab 1993;76(1):156-61. [1333-91]	P
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Cheney C, Shea D, Maydonovitch C, Truesdale R, Branton P, Wong R: Biochemical changes in intracellular mucus in patients with gastritis before and after eradication of helicobacter pylori. Gastroenterology 1993;104:A2403. [1406]	Ab
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CITATION*	TYPE**
DEPARTMENT OF MEDICINE Gastroenterology Service (continued)	
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CITATION*	<u>TYPE</u> **
DEPARTMENT OF MEDICINE Gastroenterology Service (continued)	
Landes T, Maydonovitch C, Wong R: Characteristics of supine gastroesophageal reflux: important considerations for therapy. 93rd Annual Meeting of the American Gastroenterological Association, San Francisco, CA, 1992. [1408]	Pr
Landes T, Maydonovitch C, Wong R: Characteristics of supine gastroesophageal reflux: important considerations for therapy. 20th Annual William Beaumont Gastrointestinal Symposium and 9th Army Regional Meeting of the American College of Physicians, San Francisco, CA, November, 1992. [1408]	Pr
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Ma S, Wong R, Kikendall J, Nair P: Detection of p53 gene mutations in exfoliated colonic epithelial cells isolated from stools of subjects undergoing colonoscopy. Gastroenterology 1993;104:A423. [1423]	Ab
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McGovern T, Holtzmuller K, Sherman K, Smith M, Kadakia S, Kepczyk T, Inscoe K, Murphy J, See A, Wong R, Sjogren M: Hepatitis C transmission in sexual but not in casual contacts of index cases. Hepatology 1992;16:72A. [1420]	Ab
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Moses F, Stamm C, Peller P, Larsen B, Peller T, Brewer T: Oral low-dose pulse methotrexate in primary sclerosing cholangitis: an open label trial. Am J Gastroenterol 1993;88:1554. [1410]	Ab

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CITATION*	TYPE**
DEPARTMENT OF MEDICINE Gastroenterology Service (continued)	
Moses F, Stamm C, Peller T, Larsen B, Peller P, Brewer T: Oral low-dose pulse methotrexate (MTX) in primary sclerosing cholangitis. 20th Annual William Beaumont Gastrointestinal Symposium and 9th Army Regional Meeting of the American College of Physicians Meeting, San Francisco, CA, November, 1992. [1410]	Pr
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Peller T, Wong R, Shea-Donahue T: Eicosanoid generation and relation to gastritis following ibuprofen. 93rd Annual Meeting of the American Gastroenterological Association, San Francisco, CA, 1992. [1417]	Pr
Sjogren M: Hepatitis C transmission in sexual but not in casual contacts of index cases. 43rd Annual Meeting of the American Association for the Study of Liver Diseases, Chicago, IL, October, 1992. [1420]	Pr

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CITATION*	TYPE
DEPARTMENT OF MEDICINE Gastroenterology Service (continued)	
Sjogren M: Household transmission of hepatitis C virus. International Symposium of Hepatitis and Liver Diseases, Tokyo, Japan, May, 1993. [1420]	Pr
Smith M, Maydonovitch C, Wong R: Characteristics of upright reflux: esophageal manometric, 24-hour pH, and clinical data.  Gastroenterology 1993;104(4):A194. [1408]	Ab
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Roy M: Improving patient satisfaction with the transfer of care: a randomized controlled trial. Graduate Student Colloquium, USUHS, Bethesda, MD, April, 1993. [1028]	Pr
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Williams J, Spitzer R, Linzer M, Kroenke K, Hahn S, DeGruy F, Brody D: Gender differences in psychopathology and functional impairment in primary care. 16th Annual Meeting of the Society of General Internal Medicine, Washington, DC, April, 1993. [1030]	Pr

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## CITATION\* TYPE\*\* DEPARTMENT OF MEDICINE Hematology-Oncology Service Grem J, Jordan E, Robson M, Binder R, Hamilton J, Steinberg S, Arbuck P S, Beveridge R, Kales A, Miller J, Weiss R, McAtee N, Chen B, Goldspiel B, Sover E: Phase II study of fluorouracil, leucovorin, and interferon alfa-2a in metastatic colorectal carcinoma. J Clin Oncol 1993;11:1737-45. [1675] LaRussa V, Griffin J, Kessler S, Cutting M, Knight R, Blattler W, P Lambert J. Wright D: Effects of anti-CD33 blocked ricin immunotoxin on the capacity of CD34+ human marrow cells to establish in vitro hematopoiesis in long-term marrow cultures. Exp Hematol 1992;20:442. [9022-83] LaRussa V, Polo S, Kessler S, Putnak R: Possible generation of target Ab cells for dengue virus from CD34+ cells in cultures of human marrow. Exp Hematol 1992;20(6):735. [9022-83] LaRussa V, Polo S, Kessler S, Putnak R: Possible generation of target Pr cells for dengue virus from CD34+ cells in cultures of human marrow. International Society for Experimental Hematology Meeting, Providence, RI, 1992. [9022-83] Schwartz G, Kessler S: Stem cell growth factor (SGF) enhanced Ab interleukin-3 induced myelopoiesis in serum deprived cultures of CD34+ human bone marrow cells. Exp Hematol 1992;20(6):803. [9022-83] Schwartz G, Kessler S: Stem cell growth factor (SGF) enhanced Pr interleukin-3 induced myelopoiesis in serum deprived cultures of CD34+ human bone marrow cells. International Society for Experimental Hematology Meeting, Providence, RI, 1992. [9022-83] DEPARTMENT OF MEDICINE Infectious Disease Service Cross A, Artenstein A, Fredeking T, Que J, Furer E, Sadoff J, Cryz S: Ab Safety and immunogenicity of a polyvalent E. coli vaccine in human volunteers. Clin Res 1992;40:260A. [1974] Gasser R Jr, Magill A, Oster C, Franke E, Grogl M, Berman J: Pr Pentavalent antimonials induce pancreatitis in patients with leishmaniasis. American Society of Tropical Medicine and Hygiene, Seattle, WA, November, 1992. [1965]

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Argyr	cos G, Torrington K: Presentation of carcinoma metastatic to the thorax and diagnosis with fiberoptic bronchoscopy. Am Rev Resp Dis 1993;147:A524. [1756]	Ab
Argyr	cos G: Presentation of carcinoma metastatic to the thorax and diagnosis with fiberoptic bronchoscopy. International Conference of the American Lung Association and the American Thoracic Society, San Francisco, CA, May, 1993. [1756]	Pr
Berg	B, Dillard T, Derderian S, Rajagopal K: Hemodynamic effects of altitude exposure and oxygen administration in chronic obstructive pulmonary disease. Am J Med 1993;94(4):407-12. [1724]	P
Berg	B: Hypoxia inhalation testing (HIT): application in COPD and comparison of response variables. 9th Army Regional Meeting of the American College of Physicians, San Francisco, CA, November, 1992. [1749]	Pr
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Dilla	ard T, Berg B: Air travel and COPD. Sunrise Seminar at International Conference of American Thoracic Society, Miami, FL, 1992. [1724]	Pr
Dilla	ord T, Hnatiuk O, McCumber T: Maximum voluntary ventilation.  Spirometric determinants in chronic obstructive pulmonary disease patients and normal subjects. J Am Rev Respir Dis 1993;147(4):870-5. [1717]	P

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Dillard T: Pre-flight evaluation. American Thoracic Society, Symposium on Air Travel and Pulmonary Patients, Assemblies on Nursing and Clinical Problems, San Francisco, CA, May, 1993. [1749]	Pr
Dillard T: Pulse oximetry threshold for oxygen therapy during air transport of patients. 9th Army Regional Meeting of the American College of Physicians, San Francisco, CA, November, 1992. [1724]	Pr
Dillard T: Hypoxemia during altitude exposure: meta-analysis of COPD patients. 9th Army Regional Meeting of the American College of Physicians, San Francisco, CA, November, 1992. [1724]	Pr
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<u>CITATION*</u>	TYPE**
DEPARTMENT OF MEDICINE Pulmonary Disease Service (continued)	
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Kumke K, Derderian S, Hamm C, Phillips Y, Rajagopal K: The effect of buspirone on sleep in stable asthmatics with severe air flow obstruction. Chest 1993;104:51S. [1754]	Ab
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Moores L: The effect of acute and chronic diltiazem administration on pulmonary gas exchange and oxygen delivery in severe COPD. 9th Army Regional Meeting of the American College of Physicians, San Francisco, CA, November, 1992. [1740]	Pr
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Rajagopal K: Sleep and nocturnal oxygenation in patients with restrictive pulmonary disease. 9th Army Regional Meeting of the American College of Physicians, San Francisco, CA, November, 1992. [1707]	Pr
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CITATION*	TYPE**
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DEPARTMENT OF MEDICINE Rheumatology Service (continued)	
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Szentendrei T, Lipnick R, Tsokos G: Beta-adrenergic receptor expression is regulated by cytokines in human B lymphocytes. J Immunol 1993;150:183A. [3711]	Ab
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Theocharis S, Sfikakis P, Lipnick R, Klipple G, Tsokos G: Isolation and characterization of in vivo HPRT-mutated T-cell clones from patients with systemic lupus erythematosus (SLE). Arthritis Rheum 1993;36(9):S71. [3711]	Ab
Tsokos G, Oglesby R, Theocharis S, Sfikakis P, Baraf H, Via C: Defective in vitro response to recall antigens in patients with systemic lupus erythematosus is corrected in the presence of functional B7/BB1 antigen. Arthritis Rheum 1993;36:S238. [3714]	Ab
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NEUROLOGY SERVICE	
Dew M, Jabbari B: Epilepsy surgery at Walter Reed Army Medical Center. AMEDD Conference, San Antonio, TX, November, 1992. [7144]	Pr
Jabbari B, Bartoszek D: Botulinum toxin in rare movement disorders. AMEDD Conference, San Antonio, TX, November, 1992. [7144]	Pr
Jabbari B, Braiman J: Continuous jerking of an ear associated with a frontal tumor. A rare form of epilepsia partialis continua?.  Annual Meeting of the American Epilepsy Society, Seattle, WA, December, 1992. [7144]	Pr
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Jabbari B, Dew M: Epilepsy surgery based on non-invasive monitoring. International Epilepsy Congress, Oslo, Norway, July, 1993. [7144]	Pr
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Kobylarz E, Jabbari B: Epileptic dystonia. AMEDD Conference, San Antonio, TX, November, 1992. [7144]	Pr
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Farley J: Clinical significance of the inflammatory pap smear.  Residents' Day Forum, Walter Reed Army Medical Center, Washington, DC, May, 1993. [4304]	Pr
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Daugirda J: Survivability of viscerotropic Leishmania tropica from Desert Storm participants in human blood products maintained at blood bank conditions. Master's Thesis, Bowling Green State University, Bowling Green, Ohio, August, 1993. [4813]	P
Welsh V: A comparison of fresh and rejuvenated red blood cells cryopreserved with hydroxyethyl starch [Master's Thesis]. Tri-Service Blood Bank Fellowship, Walter Reed Army Medical Center, Washington, DC, August, 1993. [4814]	P

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Ashton W, Dykstra K, Francis G: Testosterone increases the in vitro production of insulin-like growth factor-l and insulin-like growth factor binding protein by neonatal foreskin fibroblasts. Society for Pediatric Research, Washington, DC, May, 1993. [6064]	Pr
Bass J, Steele R, Wittler R: Antimicrobial treatment of occult bacteremia: a multicenter cooperative study. Pediatr Infect Dis J 1993;12(6):466-74. [6223]	P
Bent R, Wiswell T: Does intubation and suctioning for meconium cause airway damage?. Pediatr Res 1992;31:195A(#1157). [6274]	Ab
Bent R: Does intubation and suctioning for meconium cause airway damage?. Annual Meeting of the Society for Pediatric Research, Baltimore, MD, 1992. [6274]	Pr
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Curley M, Payne M, Betz J, Poth M: Lipid preoxidation in the diabetic rat model - A comparison of two methods. 4th Joint Meeting of the Lawson-Wilkins Pediatric Endocrine Society and the European Society of Pediatric Endocrinology, San Francisco, CA, June, 1993. [6321]	Pr
Curtis J, O'Neill J, Payne M, Pettett P: Comparison of intravenous and endotracheal tolazoline. Meeting of the Southern Society for Pediatric Research, New Orleans, LA, 1992. [6295]	Pr
Curtis J, O'Neill J, Pettett P: Comparison of intravenous and endotracheal tolazoline. Uniformed Services Pediatric Seminar, Uniformed Services University of the Health Sciences, Bethesda, MD, 1992. [6295]	Pr
Curtis J, O'Neill J, Pettett P: Comparison of intravenous and endotracheal tolazoline. Society for Pediatric Research Meeting, Baltimore, MD, 1992. [6295]	Pr
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<sup>\*</sup> Number in [] is the protocol number. \*\* P = publication, Ab = abstract, Pr = presentation

CITATION*	TYPE**
DEPARTMENT OF PEDIATRICS (continued)	
Darling B, Pettett P, Payne M, Gallagher K, O'Neill J: Hypoglycemia and developmental differences in the release of excitatory amino acids. Pediatr Res 1993;33(4):45A. [6332]	Ab
Darling B, Pettett P, Payne M, Gallagher K, O'Neill J: Hypoglycemia and developmental differences in the release of excitatory amino acids. Committee on Military Perinatal Medicine, Aspen, CO, September, 1993. [6332]	Pr
Dykstra K, Payne M, Abdel-Rahim M, Francis G: Insulin-like growth factor-l but not growth hormone has in vitro proliferative effects on neonatal foreskin fibroblasts without affecting 5-reductase or androgen receptor activity. J Androl 1993;14:73-8. [6064]	P
Nickels D, Poth M: Lack of effect of growth hormone on diabetic nephropathy in the rat. Pediatr Res 1993;33:194A. [6291]	Ab
Nickels D, Poth M: Somatostatin increases glomerular PG E2 production in diabetic and normal rats. Pediatr Res 1993;33(suppl):S77. [6327]	Ab
Nickels D, Poth M: Somatostatin increases glomerular PG E2 production in diabetic and normal rats. 4th Joint Meeting of the Lawson-Wilkins Pediatric Endocrine Society and the European Society for Pediatric Endocrinology, San Francisco, CA, June, 1993. [6327]	Pr
Nickels D, Sabnis S, Antonovych T, Poth M: Effect of chronic growth hormone administration on diabetic nephropathy in the rat. Ann Clin Lab Sci 1993;23(6):462-8. [6291]	P
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Phillips-Dawkins T, Wilson S, Anderson L, Weisman L: The effect of parenteral lipid on neonatal coagulase negative staphylococcal sepsis. Ped Res 1993;33:294A(abstract #1746). [6299]	Ab
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<sup>\*</sup> Number in [] is the protocol number. \*\* P = publication, Ab = abstract, Pr = presentation

CITATION*	TYPE*
DEPARTMENT OF PEDIATRICS (continued)	
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Raszka W, Skillman L, McEvoy P: Potential role of trimethoprim -sulfamethoxazole in the treatment of pediatric mycobacterium avium complex infections [Letter]. Pediatr Infect Dis 1993;12:418-9. [6306]	P
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Raszka W: High frequency of trimethoprim-sulfamethoxazole susceptibility in clinical isolates of M. avium complex (MAC). 32nd International Congress of Antimicrobial Agents and Chemotherapy, Anaheim, CA, October, 1992. [6306]	Ab
Watson M, Betz J, Francis G: Evidence suggesting activated macrophages produce a factor(s) which inhibit(s) Leydig's cell testosterone production by more than one intracellular mechanism. Uniformed Services Section, American Academy of Pediatrics, San Antonio, TX, February, 1993. [6257]	Pr
Watson M, Betz J, Newman R, Francis G: Activated macrophages produce a factor(s) which directly inhibits in vitro Leydig's cell testosterone production. Satellite Symposium on Gonadotropins, GnRH, GnRH Analogs, and Gonadal Peptides, Paris, France, 1992. [6257]	Pr
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Wiswell T, Hachey W: Urinary tract infections and the uncircumcised state: a meta-analysis. Annual Meeting of the Society for Pediatric Research, Baltimore, MD, 1992. [6304]	Pr
Wiswell T, Hachey W: Urinary tract infections and the uncircumcised state: a meta-analysis. Ped Res 1992;31:103A(#603). [6304]	Ab

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<u>CITATION</u> *	TYPE*
DEPARTMENT OF PEDIATRICS (continued)	
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Maybee D, Dubowy R, Pollock B, Lucas M, Weinstein H: Inadequacy of standard toxicity criteria in evaluating complications of high-dose alpha interferon in children with Philadelphia chromosome positive chronic myelogenous leukemia. Proceedings of the American Society of Pediatric Hematology and Oncology 1993;2:46. [6213]	Ab

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<u>CITATION</u> *	TYPE**
PHYSICAL MEDICINE AND REHABILITATION SERVICE	
Braverman S, Davis W, Kirk K, Engler R, Belandres P: High dose intravenous immunoglobulin for chronic demyelinating polyneuropathy. Arch Phys Med Rehabil 1992;73(10):1001. [9621]	Ab
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Dillingham T, Olaje F, Thornton-Vogel M, Belandres P: Orthosis for the complete median and radial nerve-injured war casualty. J Hand Therapy 1992;5(4):212-7. [9614]	P
Dillingham T, Spellman N, Braverman S, Zeigler D, Belandres P, Bryant P, Salcedo V, Schneider R: Analysis of casualties referred to Army physical medicine services during the Persian Gulf conflict. Am J Phys Med Rehabil 1993;72(4):214-8. [9614]	P
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Robinson M, Bryant P, Fujimoto R: Radial nerve F-wave latency in healthy subjects: normative data. 54th Annual Assembly of the American Academy of Physical Medicine and Rehabilitation and the American Congress of Rehabilitation Medicine, San Francisco, CA, November, 1992. [9609]	Pr
Sweeney J: Epidemiology of injuries requiring physical therapy during Operation Desert Shield/Storm. Mary Lipscomb Hamrick AMSC Research Course, Silver Spring, MD, 1992. [9612]	Pr

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CITATION*	TYPE
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Cheevers T: Characteristics and correlates of outpatient group therapy participants selected by PGY-3 psychiatry residents. Research Symposium, Walter Reed Army Medical Center, Washington, DC, June, 1993. [7247]	Pr
Hall D, Benedek D, Chang A: Intra-daily mood variance in depression. 146th Annual Meeting of the American Psychiatric Association Abstracts 1993; NR 152. [7245]	Ab
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Joslin S: An outcome study of schizophreniform disorder diagnosed at Walter Reed Army Medical Center: interim findings. Grand Rounds, Walter Reed Army Medical Center, Washington, DC, June, 1993. [7251]	Pr
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Earls J, McAdams H, Colon E, Jelinek J: Protein S deficiency syndrome: imaging findings. Am J Roentgenol 1993;161:1283-7. [4702]	P
Earls J, McAdams H, Colon E: Imaging in congenital hypercoagulable states. The Roentgen Ray Society Meeting, San Francisco, CA, April, 1993. [4702]	Pr
DEPARTMENT OF SURGERY Anesthesia-Operative Service	
Boedeker B, Lojeski E, Haynes D: Microencapsulated tetracaine demonstrated to be an ultra-long-duration local anesthetic. Anesthesiology 1992;77:A799. [2056A]	Ab
Deal M: Intraoperative use of patient-controlled anxiolysis: implications for health psychology. American Psychology Association Annual Convention, Washington, DC, 1992. [2050A]	Pr

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<u>CITATION</u> *	TYPE*
DEPARTMEN: OF SURGERY Anesthesia-Operative Service (continued)	
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DEPARTMENT OF SURGERY Army Audiology and Speech Center	
Grant K, Walden B: The transmission of prosodic information via selected spectral regions of speech. J Acoust Soc Am 1992;92:2300-1. [2511]	Ab
Grant K, Walden B: Evaluating the articulation index for auditory-visual consonant recognition. J Acoust Soc Am 1993;94:1187. [2514]	Ab
Leek M, Summers W, Cord M: The internal signal-to-noise ratio in hearing-impaired listeners. J Acoust Soc Am 1993,93:2367. [2588]	Ab
Leek M, Summers W, Cord M: The internal signal-to-noise ratio in hearing-impaired listeners. Spring Meeting of the Acoustical Society of America, Ottawa, Canada, May, 1993. [2521]	Pr
Leek M, Summers W: Auditory filter shapes of normal-hearing and hearing-impaired listeners in continuous broadband noise. J Acoust Soc Am 1993;94:3127-37. [2588]	P
McClean M, Clay J: Lip muscle activation and motor unit firing rates during simple speech utterances. Soc Neurosciences;19:553. [2519]	Ab
McClean M, Levandowski D, Cord M: Timing of structural movements in the fluent speech of stutterers. Asha;35:168. [2518]	Ab
McClean M: Kinematic and reflex analysis of adult stutterers' speech. Invited presentation to the Department of Speech and Hearing Sciences, Indiana University, Bloomington, IN, 1992. [2510]	Pr

<sup>\*</sup> Number in [] is the protocol number. \*\* P = publication, Ab = abstract, Pr = presentation

<u>CITATION</u> *	TYPE*
DEPARTMENT OF SURGERY Army Audiology and Speech Center (continued)	
McClean M: Physiologic analyses of stutterers' speech. Invited presentation to the Department of Audiology and Speech Sciences, Purdue University, West Lafayette, IN, 1992. [2510]	Pr
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Surr R, Cord M: Comparison of linear class D and k-amp hearing aid fittings by experienced hearing aid users. Audiology Today 1993;5:50. [2520]	Ab
Thompson P, McClean M, Summers W: Discriminant analysis of stop consonant spectra in dysarthria. The American Speech-Language -Hearing Association Convention, San Antonio, TX, November, 1992. [2516]	Pr
DEPARTMENT OF SURGERY Critical Care Medicine Service	
Stoltzfus D, Kuzma P: Capnography directed ventilation during intrahospital transport. Crit Care Med 1992;20(4):S29. [3008]	Ab
Stoltzfus D: Capnography directed ventilation during intrahospital transport of critically ill, mechanically ventilated patients. 4th AMEDD Clinical Investigation Postgraduate Short Course, San Antonio, TX, 1992. [3008]	Pr
Stoltzfus D: Capnography directed ventilation during intrahospital transport of critically ill, mechanically ventilated patients.  Society of Critical Care Medicine, San Antonio, TX, 1992. [3008]	Pr
Stoltzfus D: Capnography directed ventilation during intrahospital transport of critically ill, mechanically ventilated patients.  Clinical Investigator's Recognition Seminar, Walter Reed Army Medical Center, Washington, DC, 1992. [3008]	Pr

<sup>\*</sup> Number in [] is the protocol number. \*\* P = publication, Ab = abstract, Pr = presentation 135

CITATION*	TYPE
DEPARTMENT OF SURGERY Ophthalmology Service	
Cavallaro B, Hollifield R, Ward T, Wertz F: The medical implications of intraocular ballistic and laser protective spectacles (BLPS) fragments. Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL, May, 1993. [2318]	Pr
Cavallaro B, Hollifield R, Ward T, Wertz F: Medical implications of intraocular BLPS fragments. Lasers on the modern battlefield.  Brook Air Force Base, TX, February, 1993. [2318]	Pr
Cavallaro B, Hollifield R, Ward T, Wertz F: The medical implications of intraocular BLPS fragments. DOD Laser Safety Systems Working Group, Annapolis, MD, 1992. [2318]	Pr
Cavallaro B, Hollifield R, Ward T, Wertz F: The medical implications of intraocular BLPS fragments. Personal Eye Protections Against Directed Energy Threats Program Review, Natick Labs, Natick, MA, 1992. [2318]	Pr
Puckett T, Miller M, Peele K, Kramer K: Intraocular irrigating solutions: a clinical trial of BSS Plus and dextrose bicarbonate lactated Ringer's solution. Annual Meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL, May, 1993. [2317]	Pr
Puckett T, Miller M, Peele K, Kramer K: Intraocular irrigating solutions: a clinical trial of BSS Plus and dextrose bicarbonate lactated Ringer's solution. Invest Ophthalmol Visual Sci 1993;34:1224. [2317]	Ab
DEPARTMENT OF SURGERY Organ Transplant Service	
Fernandez-Bueno C, Shaver T, Swanson S, Peters T, Kocandrle V: Simultaneous use of low dose cyclosporine, ALG, and steroids in clinically "sub-optimal" cadaver kidneys. Am J Kidney Dis 1992;20(6):All. [2633]	Ab
DEPARTMENT OF SURGERY Orthopaedic Surgery Service	
Beauschesne R, Xenos J, Engh C, Hopkinson W: Aggressive osteolysis in stable cementless acetabular components with perforations in the metal backing. Society of Military Orthopaedic Surgeons, Colorado Springs, CO. December, 1992. [2434]	Pr

<sup>\*</sup> Number in [] is the protocol number.

<sup>\*\*</sup> P - publication, Ab - abstract, Pr - presentation 136

## CITATION\* TYPE\*\* DEPARTMENT OF SURGERY Orthopaedic Surgery Service (continued) Beauschesne R, Xenos J, Hopkinson W, Engh C: Aggressive osteolysis Pr behind well-fixed acetabular components with perforations. Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February, 1993. [2434] Brown M: The effect of extracorporeal shockwaves on bone and soft Pr tissue in rabbits. Annual Hufnagel Award Competition, Uniformed Services University of the Health Sciences, Bethesda, MD, April, 1993. [2435] Hayda R, McHale K, Lower R, Romash M: Open injuries to the foot and Pr ankle in modern warfare: an analysis of Desert Storm casualties. American Academy of Orthopaedics Annual Meeting, San Francisco, CA, February, 1993. [2433] Pr Hayda R, McHale K, Lower R, Romash M: Open injuries to the foot and ankle in modern warfare: an analysis of Desert Storm casualties. Society of Military Orthopaedic Surgeons Meeting, Colorado Springs, CO, December, 1992. [2433] Popovic N, Brown M, Van Dam B, Sweet D: Preliminary data on the Pr effects of extracorporeal shockwaves on bone and soft tissue in rabbits. Meeting of the International Osteostar Users, Erlangen, Germany, October, 1992. [2435] Xenos J, Hopkinson W, Heekin R, Callaghan J, Savory C: Thigh pain in Pr uncemented primary total hip arthroplasty. Society of Military Orthopaedic Surgeons, Colorado Springs, CO, December, 1992. [2434] Xenos J, Hopkinson W, Mulligan M, Olson E, Popovic N: The tibiofibular Pr syndesmosis: evaluation of the ligamentous structures and methods of fixation. Washington Orthopaedic Society, Rosslyn, VA, 1992. [2432] Xenos J, Hopkinson W, Mulligan M, Olson E, Popovic N: The tibiofibular Pr syndesmosis: evaluation of the ligamentous structures and methods of fixation. Eastern Orthopaedic Association, Puerto Rico, October, 1992. [2432] Xenos J, Hopkinson W, Mulligan M, Olson E, Popovic N: The tibiofibular Pr syndesmosis: evaluation of the ligamentous structures and methods of radiographic assessment. American Academy of Orthopaedic Surgeons, San Francisco, CA, February, 1993. [2432]

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<u>CITATION</u> *	TYPE**
DEPARTMENT OF SURGERY Orthopaedic Surgery Service (continued)	
Xenos J, Hopkinson W, Mulligan M, Olson E, Popovic N: The tibiofibular syndesmosis: evaluation of the ligamentous structures and methods of radiographic assessment. The American Orthopaedic Society for Sports Medicine, San Francisco, CA, February, 1993. [2432]	Pr
Xenos J, Hopkinson W, Mulligan M, Olson E, Popovic N: The tibiofibular syndesmosis: evaluation of the ligamentous structures, methods of fixation and radiographic assessment. Society of Military Orthopaedic Surgeons, Colorado Springs, CO, December, 1992. [2432]	Pr
Xenos J, Hopkinson W, Mulligan M, Olson E, Popovic N: The tibiofibular syndesmosis: evaluation of ligamentous structures and methods of fixation. Transcript of the Orthopaedic Research Society 1993;18:325. [2432]	Ab
DEPARTMENT OF SURGERY Urology Service	
Barry M, Cockett A, Holtgrewe H, McConnell J, Sihelnik S, Winfield H: Relationship of symptoms of prostatism to physiologic and anatomic measures of the severity of benign prostatic hyperplasia. J Urol 1993;150:351-8. [2865]	P
Cockett A, Barry M, Holtgrewe H, Sihelnik S, Williams R, McConnell J: Indications for treatment of benign prostatic hyperplasia: The American Urological Association study. Cancer 1992;70:280-3. [2865]	P
Kuhn E, Kurnot R, Sesterhenn I, Chang E, Moul J: Expression of the c-erbB-2 oncoprotein in prostate cancer. J Urol 1993;150:1427-33. [2860]	P
Moul J, Foley J, Hitchcock C, McCarthy W, Sesterhenn I, Becker R, Griffin J: Flow cytometric and quantitative histological parameters to predict occult disease in clinical stage I nonseminomatous testicular germ cell tumors. J Urol 1993;150(3):879-83. [2862]	P
Moul J, Foley J, Hitchcock C: Flow cytometric and quantitative histologic parameters to predict occult disease in clinical stage I nonseminomatous testicular germ cell tumors. J Urol 1993:149(4):453A(abstract #961). [2862]	Ab

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CITATION*	TYPE**
DEPARTMENT OF SURGERY Urology Service (continued)	
Moul J, Lance R, Theune S, Bishoff J: Probing the molecular machine that drives PCA. Contemp Urol 1992;4(5):62-7. [2860]	P
Moul J: molecular biology of prostate cancer. Urology Grand Rou George Washington University, Washington, DC, 1992.	Pr
Moul J: The molecular biology of prostate cancer. Visiting Professor, University of South Florida, Tampa, FL, 1992. [2860]	Pr
Moul J: Pitfalls in the diagnosis and treatment of testicular cancer.  Visiting Professor, University of South Florida, Tampa, FL, 1992. [2860]	Pr
Moul J: The expression of the c-erbB-2 oncoprotein in human prostate cancer. NIH International Symposium on the Biology of Prostate Growth, Bethesda, MD, 1992. [2860]	Pr
Moul J: Flow cytometric and quantitative histologic parameters to predict occult disease in clinical stage I nonseminomatous testicular germ cell tumors. Eastern Cooperative Oncology Group Meeting, Baltimore, MD, 1992. [2862]	Pr
Moul J: Flow cytometric proliferative activity to predict occult disease in clinical stage I nonseminomatous testicular germ cell tumors. 50th Mid-Atlantic Section of the American Urologic Association Annual Meeting, Williamsburg, VA, 1992. [2862]	Pr
Moul J: Various gene markers and the management of prostate cancer. Triton Diagnostics Corporation, Alameda, CA, October, 1992. [2860]	Pr
Moul J: The molecular biology of prostate cancer: what the clinician needs to know now. Controversies in the Diagnosis and Management of Prostate and Bladder Cancer Conference, Orlando, FL, October, 1992. [2860]	Pr
Moul J: The molecular biology of prostate cancer: what the clinician needs to know now. Visiting Professor, Department of Pathology Grand Rounds, Medical College of Virginia, Richmond, VA, November, 1992. [2860]	Pr

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<u>CITATION</u> *	TYPE**
DEPARTMENT OF SURGERY Urology Service (continued)	
Moul J: Flow cytometric and quantitative histologic parameters to predict occult disease in clinical stage I nonseminomatous testicular germ cell tumors. Podium Session, 88th Annual Meeting of the American Urologic Association, San Antonio, TX, May, 1993. [2862]	Pr
Moul J: Prognostic factors in low stage testicular nonseminoma. Invited Visiting Professor, University of Iowa, Iowa City, IA, September, 1993. [2862]	Pr
Moul J: Molecular biology of prostate cancer. Invited Visiting Professor, University of Iowa, Iowa City, IA, September, 1993. [2860]	Pr

<sup>\*</sup> Number in [] is the protocol number. \*\* P = publication, Ab = abstract, Pr = presentation

## A D D E N D U M PUBLICATIONS/PRESENTATIONS BY DEPARTMENT/SERVICE AND AUTHOR FROM PROTOCOLS CLOSED PRIOR TO FY-93

<u>CITATION</u> *	TYPE
HIV RESEARCH	
Drabick J, Birx-Raybuck D, Ovadia R, Redfield R, Oster C. Cimetidine as an immunoaugmenting agent in advanced HIV infection. Clin Res 1992;40:383A [8807]	Ab
Jabbari B, Coats M, Salazar A, Martin A, Scherokman B, Laws W. Longitudinal study of EEG and evoked potentials in neurologically asymptomatic HIV infected subjects. Electroencephalogr Clin Neurophysiol 1993;86(3):145-51. [7128]	P
Laws W, Martin A, Kampen D, Salazar A, Mapou R. Symptoms of depression in HIV-infected individuals: etiological considerations. Neuropsychiat Neuropsychol Behav Neurol 1993;6:181-6. [7128]	P
Mapou R, Kay G, Rundell J, Temoshok L. Measuring performance decrements in aviation personnel infected with the human immunodeficiency virus. Aviat Space Environ Med 1993; 64: 158-64. [7128]	P
Mapou R, Laws W., Martin A, Kampen D, Salazar A, Rundell J, Neuropsychological performance, mood, and complaints of cognitive and motor dificulties in individuals infected with the human immunodeficiency virus. J Neuropsychiatry Clin Neurosci 1993;6:181-6. [7128]	P
Martin A, Heyes M, Salazar A, Laws W, Williams J. Impaired motor-skill learning, slowed reaction time, and elevated cerebrospinal-fluid-guinolinic acid in a subgroup of HIV-infected individuals. Neuropsychol 1993;7:149-57. [7128]	P

<sup>\*</sup> Number in [ ] is the closed protocol number \*\* P = publication, Ab = abstract, Pr = presentation

# A D D E N D U M PUBLICATIONS/PRESENTATIONS BY DEPARTMENT/SERVICE AND AUTHOR FROM PROTOCOLS CLOSED PRIOR TO FY-93

CITATION*	TYPE**
DEPARTMENT OF MEDICINE Cardiology Service	
Cantilena L, Smith, R, Frasur S, Kruszyna H, Kruszyna R, Wilcox D. Nitric oxide hemoglobin in patients receiving nitroglycerin as detected by electron paramagnetic resonance spectroscopy. J Lab Clin Med 1992;120(6):902-7. [1263]	P
Weston L, Hull R, Laird J, Chin Y, Wortham D. A phenotype coronary electrode catheter for intracoronary electrogram.  Am J Cardiol 1992;70(18):1492-3.  [1266]	P
DEPARTMENT OF MEDICINE Endocrine-Metabolic Service	
Bhatia S, Lukes Y, Kuppers R, Rose N. Sequence analysis of antigenic determinants of thyroglobulin. Thyroid 1993; 3(suppl 1):126. [1316-89]	Ab
Carr F, Fisher C, Fein H, Smallridge R. Thyrotropin-releasing hormone stimulates c-jun and c-fos messenger ribonucleic acid levels: implications for calcium mobilization and protein kinase-C activation. Endocrinology 1993;133: 1700-6. [1393-87]	P
Deschamps B, Lawless D, Carr F, Wong N. Rat hepatonuclear factor, PS-1, regulates tissue-specific activity of the S14 promoter in vitro. J Biol Chem 1992;267:25167-73. [1393-82]	P
Hockmeyer M, Flatter C, Duncan W. Do self-efficacy beliefs predict diabetes self-care? 75th Annual Meeting of the Endocrine Society, Las Vegas, NV, June, 1993. [1317-89]	Pr

<sup>\*</sup> Number in [] is the closed protocol number \*\* P = publication, Ab = abstract, Pr = presentation

CITATION*	<u>TYPE</u> **
DEPARTMENT OF MEDICINE Endocrine-Metabolic Service (continued)	
Nagy E, Burch H, Burman K. Unidirectional shift of the dominant T cell epitope in the human thyrotropin receptor in Graves' disease. Thyroid 1993;3(suppl 1):114. [1316-89]	Ab
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<u>CITATION</u> *	TYPE*
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Derderian S, Hamm C, Rajagopal K. Hemodynamic changes after uvulopalatopharyngoplasty. Chest 1992;102:53S. [2584]	Ab
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CITATION*	<u>TYPE</u> **
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<u>CITATION</u> *	TYPE*
DEPARTMENT OF SURGERY Orthopaedic Surgery Service (continued)	
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CITATION	TYPE*
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Wortham D, Gorman P, Hull R, Vernalis M, Gaither N: Unruptured sinus of Valsalva aneurysm presenting with embolization. Am Heart J 1993;125(3):896-8.	P

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Aloj S, Liguoro D, Kiang J, Smallridge R: Purinergic (P2) receptor-operated calcium entry into rat thyroid cells. Biochem Biophys Res Com 1993;195:1-7.	P
Burch H, Clement S, Sokol M, Landry F: Reactive hypoglycemic coma due to insulin autoimmune syndrome. Am J Med 1992; 92:681-5.	P
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CITATION	TYPE*
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Burch H, Wartofsky L: Life-threatening thyrotoxicosis: thyroid storm. Endocrinol Metab Clin North Am 1993;22(2):263-77.	P
Burman K: Issues in management of thyroid cancer: should radioiodine scans still be performed? Plenary Lecture, Endocrine Society Annual Meeting, Las Vegas, NV, June, 1993.	Pr
Burman K, Djuh Y, Nicholson D, Rhooms P, Wartofsky L, Fein H, Usala S, Hao E, Bradley W, Berard J, Smallridge R: Generalized thyroid hormone resistance: identification of an arginine to cystine mutation in codon 315 of the C-erb A beta thyroid hormone receptor. J Endocrinol Invest 1992;15:573.	P
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Duncan W, Solomon B, Chang A, Wartofsky L: Treatment with thyroid hormone: effect on spine bonemineral density (BMD).  J Bone Min Res 1992;7(suppl 1):S328.	Ab

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CITATION	<u>TYPE</u> *
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Francis T, Wartofsky L: Common thyroid disorders in the elderly. Postgrad Med 1992;92:225.	Ab
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Glass A, Kikendall J, Sobin L, Bowen P: Serum 25-hydroxyvitamin D in colonic neoplasia. Proceedings of the Endocrine Society Annual Meeting, Las Vegas, NV, 1993:A1367.	Ab
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Harford R, Reed H, Morris M, Sapien I, Warden R, D'Alesandro M: Relationship between changes in serum thyrotropin and lipoprotein cholesterol with prolonged Antarctic residence. Metabolism 1993;42:1-5.	P
Nagy E, Burch H, Lukes Y, Kosugi S, Kohn L, Burman K: Immunogenicity of a unique region of the human thyrotropin receptor. J Endocrinol Invest 1993;16:485-93.	P
Roth B, Plymate S, Kushner J, Grover B: Hypogonadism and chronic obstructive pulmonary disease (COPD). Am Rev Resp Dis 1992; 145:643A.	Ab

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CITATION	TYPE*
DEPARTMENT OF MEDICINE Endocrine-Metabolic Service (continued)	
Sokol M, Kavolius J, Schaaf M, D'Avis J: Recurrent hyperparathyroidism from benign neoplastic seeding: a review with recommendations for management. Surgery 1993;113:456-61.	P
Solomon B, Loriaux T, Drass J: Endocrine and metabolic systems. In: Thompson J, McFarland G, Hirsch J, Tucker S, Bowers A, eds. Clinical Nursing. St. Louis: C.V. Mosby Co., 1992.	P
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DEPARTMENT OF MEDICINE Gastroenterology Service	
Bryan J, Sjogren M, Macarthy P, Cox E, Legters L, Perine P: Persistence of antibody to hepatitis B surface antigen after low-dose, intradermal hepatitis B immunization and response to a booster dose. Vaccine 1992;10:33-8.	P
Bryan J, Sjogren M, Malone J, Macarthy P, Kao T, Wagner K, Sheffield J, Smith E, Perine P: Recombinant immunoblot assays for hepatitis C in human immunodeficiency virus type 1 infected US Navy personnel. J Infect Dis 1993;167:715-19.	P
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CITATION	TYPE*
DEPARTMENT OF MEDICINE Gastroenterology Service (continued)	
Crespo I, Wong R, Murphy J, Maydonovitch C: Mesenteric vein thrombosis and protein C deficiency mimicking Crohn's disease. Am J Gastroenterol 1992;87(9):1337.	Ab
DeMarkles M, Murphy J: Acute lower gastrointestinal bleeding. Med Clin North Am 1993;77:1085-1100.	P
Kikendall J, Johnson L: Medication-induced esohageal injury. In: Castell D, ed. The Esophagus. Boston: Little, Brown, 1992:233-60.	P
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Shay S: Regurgitation. In: Castell D, ed. The Esophagus. Boston: Little, Brown, 1992:571-8.	P
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Smith M, Kikendall J, Wong R, Maydonovitch C: Refractory benign esophageal stricture associated with sulindac use. Am J Gastroenterol 1992;87(9):1258.	Ab
Smith M, Murphy J, Wong R, Maydonovitch C: Liver adenomatosis diagnosed in association with phenytoin hepatotoxicity.  Am J Gastroenterol 1992;87(9):1307.	Ab
Smith M, Peura D: Foreign bodies. In: Castell D, ed. The Esophagus. Boston: Little, Brown, 1992:383-400.	P

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CITATION	TYPE*
DEPARTMENT OF MEDICINE Gastroenterology Service	
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